

BIOTROL BT**1 PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: BIOTROL BT
Common Name: Mixture
SDS Number: 0462
Revision Date: 5/4/2015
Version: 1
Product Use: Water Treatment
Supplier Details: U. S. Water Services
12270 43rd St. NE
St. Michael, MN 55376

Contact: Non-emergency #: 866-663-7632
Email: SDS@uswaterservices.com
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EMERGENCY RESPONSE: (ChemTel)
US & Canada: 800-255-3924
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2 HAZARDS IDENTIFICATION**Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Health, Acute toxicity, 4 Oral
Health, Skin corrosion/irritation, 1 B
Health, Skin sensitization, 1
Environmental, Hazards to the aquatic environment - Chronic, 1

GHS Label elements, including precautionary statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:**GHS Hazard Statements:**

H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H410 - Very toxic to aquatic life with long lasting effects

GHS Precautionary Statements:

P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

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P272 - Contaminated work clothing should not be allowed out of the workplace.
P362 - Take off contaminated clothing and wash before reuse.
P273 - Avoid release to the environment.
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P310 - Immediately call a POISON CENTER or doctor/physician.
P363 - Wash contaminated clothing before reuse.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P311 - Call a POISON CENTER or doctor/physician.
P501 - Dispose of contents/container to accordance with national and international regulations.
P405 - Store locked up.

Hazards not otherwise classified (HNOC) or not covered by GHS

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

3 COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients:**

Cas#	%	Chemical Name
32718-18-6	96-99.5%	2,4-Imidazolidinedione, bromochloro-5,5-dimethyl

4 FIRST AID MEASURES

Inhalation: Remove from contamination. If person has stopped breathing administer artificial respiration. If symptoms persist, seek medical attention.

Skin Contact: Wash off with soap and plenty of water. Remove contaminated garments and wash or destroy. Consult a physician if irritation develops.

Eye Contact: Flush eyes with plenty of running water for 15 minutes. Seek medical attention if irritation persists.

Ingestion: If conscious, give plenty of water. If discomfort or other symptoms develop, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms & effects (acute & delayed): No data available

Indication of need for immediate medical attention: None

Special treatment needs: None

BIOTROL BT**5 FIRE FIGHTING MEASURES**

Flash Point:	Not determined
Flash Point Method:	Pensky Martens Closed cup
Burning Rate:	No data available
Autoignition Temp:	No data available
LEL:	Not applicable
UEL:	Not applicable

Extinguishing Media:

Suitable: Dry chemical, CO₂. In case of exothermic decomposition and appearance of smoke, water should be used to suppress it.

Unsuitable: No information available

Hazardous combustion products: Hazardous decomposition products formed under fire conditions- NO_x, HCl, HBr, Cl₂, CO_x, and other potentially hazardous compounds.

Unusual Fire or Explosion Hazards: Dust or fumes may form explosive mixtures in air. Forms explosive, mixture with combustible, organic or other easily oxidizable materials.

Special protective equipment/precautions: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure-demand or positive-pressure mode.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective equipment, emergency procedures: Avoid contact with the material. See section 8 for PPE recommendations

Environmental Precautions: Keep runoff from entering drains or waterways

Spill/Leak procedures: Contain spill or leak. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. Recover as much as possible then absorb remainder with inert material. Place into closed container for disposal.

Regulatory Requirements: Dispose of recovered material in accordance with all applicable state and federal regulations.

7 HANDLING AND STORAGE

Handling Precautions:	Avoid contact with eyes, skin, or clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. For industrial use only!
Storage Requirements:	Keep away from children. Store in closed containers away from temperature extremes and incompatible materials. Store in properly labeled containers in accordance with all local, state and federal guidelines.

BIOTROL BT**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls:	Provide local exhaust ventilation as needed to control misting.
Personal Protective Equipment:	HMIS PP, F Safety Glasses, Gloves, Apron, Dust Respirator
	Respiratory protection: Not required under normal use conditions. If needed use MSHA/NIOSH approved respirator for dusts and mists. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134)
	Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
	General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.
	PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)
Exposure Limits:	
OSHA (TWA)/PEL):	Not Established
ACGIH (TWA/TLV):	Not Established

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to Off-White	Odor:	Faint halogenous odor
Physical State:	Solid	Solubility:	0.22g/100mL @ 25.0C (water)
Odor Threshold:	Not determined	Freezing/Melting Pt.:	Not determined
Spec Grav./Density:	15.85 lb/gal	Flash Point:	Not determined
Viscosity:	Not determined	Vapor Density:	Not determined
Boiling Point:	Not determined	Auto-Ignition Temp:	Not determined
Flammability:	Nonflammable	UFL/LFL:	Not determined
Partition Coefficient:	Not determined		
Vapor Pressure:	9.35x10 ⁽⁻³⁾ PA @ 25.0C		
pH:	Not determined		
Evap. Rate:	Not determined		
Decomp Temp:	>160C		

10 STABILITY AND REACTIVITY

Stability:	Product is stable under normal storage and use conditions.
Conditions to Avoid:	Avoid temperature extremes. Protect from freezing
Materials to Avoid:	Strong alkalis and oxidizing agents.
Hazardous Decomposition:	NO _x , HCl, HBr, Cl ₂ , CO _x
Hazardous Polymerization:	Will not occur.

BIOTROL BT**11 TOXICOLOGICAL INFORMATION****Acute Toxicity:**

Oral LD₅₀ (rat) 929.0 mg/kg (2,4-Imidazolidinedione, bromochloro-5,5-dimethyl)
Inhalation LC₅₀ (rat) 1.100 mg/L (4hr) (2,4-Imidazolidinedione, bromochloro-5,5-dimethyl)

Skin Corrosion/Irritation: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Specific target organ toxicity (single exposure): No data available

Specific target organ toxicity (repeated exposure): No data available

Aspiration hazard: No data available

Carcinogenicity: No carcinogenic effects are known for the components of this product

Germ Cell Mutagenicity: No mutagenic effects are known for the components of this product

Teratogenicity: No teratogenic effects are known for the components of this product

12 ECOLOGICAL INFORMATION**Aquatic Toxicity**

LC₅₀ Rainbow Trout (*Oncorhynchus mykiss*), 0.400 mg/L, 96hr

LC₅₀ Water Flea (*Daphnia magna*), 0.750 mg/L, 48hr

Elimination (persistence & degradability): No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available

13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

This material should be fully characterized for toxicity and possible reactivity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

14 TRANSPORT INFORMATION

UN1479, Oxidizing solid, n.o.s., 5.1, PGIII, (2,4-Imidazolidinedione, bromochloro-5,5-dimethyl)

DOT Transportation data (49 CFR 172.101)

BIOTROL BT**15 REGULATORY INFORMATION****Component (CAS#) [%] - CODES**

2,4-Imidazolidinedione, bromochloro-5,5-dimethyl (32718-18-6) [96-99.5%] TSCA

Regulatory CODE Descriptions**TSCA = Toxic Substances Control Act**

TSCA: All components of this product are listed (or are not required to be listed) in the TSCA inventory

EPA / CERCLA / SARA TITLE III:

CERCLA List: This product does not contain any CERCLA listed hazardous substances.

Toxic Chemical List (SARA 313): This product does not contain any chemicals subject to routine annual toxic chemical release reporting.

Extremely Hazardous Substance (SARA 302/304): This product does not contain any extremely hazardous substances subject to emergency planning requirements.

SARA 312: Acute, Chronic

RCRA: No data available

16 OTHER INFORMATION

HMIS III: Health = 3, Fire = 0, Physical Hazard = 1

HMIS PPE: F - Safety Glasses, Gloves, Apron, Dust Respirator

HMIS		
HEALTH	3	
FLAMMABILITY	0	
PHYSICAL HAZARD	1	
PERSONAL PROTECTION	F	

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Revision Notes: Updated to GHS format

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